## **Amendments to the Claims**

Please amend the claims as shown below.

- 1. (Previously Presented) A method for managing intra-day interest calculations for a bank account, comprising:
- (a) in response to fluctuations in an account balance of the bank account, setting, by an intra-day interest account management system, balance determination times for the account, the balance determination times corresponding to a plurality of points in time within the span of a single day at which respective net account balances are to be used in an interest calculation for the account;
  - (b) determining the balances for the account for the balance determination times;
- (c) determining applicable conditions for the interest calculation, the conditions relating to an interest rate to be applied based on at least two of a time of day, a calendar day, a variable reference interest rate, an option expiration day, a public holiday in a particular country, a determination whether the net account balance of the bank account is a credit balance, a determination whether the net account balance of the bank account is a debit balance, and a determination whether the bank account has been overdrafted;
- (d) providing the account balances and applicable conditions to interest calculation logic; and
  - (e) recording a result of operations by the interest calculation logic.
- 2. (Original) The method of claim 1, wherein the balance determination times define intervals of arbitrary length.
- 3. (Original) The method of claim 1, wherein the balance determination times define intervals of an hour.
- 4. (Original) The method of claim 1, wherein the balance determination times define intervals of a second.
- 5. (Original) The method of claim 1, further comprising assigning a value time to a transaction to the account, the value time corresponding to a time when the transaction is included in a balance determination.

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6. (Original) The method of claim 5, wherein the value time is specified with an accuracy to the second.

## 7. (Canceled)

- 8. (Original) The method of claim 1, wherein based on the conditions, an interest rate used in performing the interest calculation may change from a first time interval to a second time interval.
- 9. (Previously Presented) A method for managing intra-day interest calculations for a bank account, comprising:
  - (a) receiving a designation of a bank account to receive intra-day interest calculation;
- (b) receiving transaction information for the account, the transaction information including a value time specifying when a transaction is to be taken into account for interest calculation;
- (c) receiving a specification of a plurality of points in time for determining corresponding account balances for use in calculating an interest on the bank account, wherein the points of time correspond to a plurality of times within a single day and are determined by an intra-day interest account management system in response to fluctuations in an account balance of the bank account;
- (d) for each of the points in time, determining a corresponding account balance, the account balance at a given point in time at least partly depending on the value time;
- (e) for each of the points in time, determining an applicable interest rate based on an assigned condition, wherein the assigned condition includes at least two of a time of day, a calendar day, a variable reference interest rate, option expiration day, public holiday in a particular country, a determination whether the net account balance of the bank account is a credit balance, a determination whether the net account balance of the bank account is a debit balance, and a determination whether the bank account has been overdrafted;
- (f) providing the account balances and the applicable interest rates to interest calculation logic; and
  - (g) generating a record of interest amounts calculated by the interest calculation logic.
- 10. (Previously Presented) The method of claim 9, wherein the value time is specified with an accuracy to the second.

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- 11. (Original) The method of claim 9, wherein (e) comprises referring to an interest calendar that classifies days according to differing interest day types, each type having an interest rate associated therewith.
- 12. (Previously Presented) A system comprising:
  - a memory including computer-executable instructions;
- a processor coupled to the memory to execute the instructions, the instructions comprising:

in response to fluctuations in an account balance of a bank account, setting, by an intraday interest account management system, points of time corresponding to a plurality of times within a single day;

the intra-day interest account management software configured to receive information relating to an intra-day interest calculation, the intra-day interest calculation relating to a calculation of interest on an account for the points of time corresponding to a plurality of times within a single day set by the intra-day interest account management system, the information including:

transaction information including a value time relating to when a transaction to the account is included in the account balance for interest calculation; and

conditions applicable to the interest calculation, the conditions relating to interest rates to be applied based on at least two of a time of day, a calendar day, a variable reference interest rate, option expiration day, public holiday in a particular country, a determination whether the net account balance of the bank account is a credit balance, a determination whether the net account balance of the bank account is a debit balance, and a determination whether the bank account has been overdrafted.

- 13. (Original) The system of claim 12, wherein the intra-day interest account management software is configured to implement a user interface providing for entry of the information.
- 14. (Original) The system of claim 12, wherein the intra-day interest account management software comprises an interest calendar, the interest calendar classifying days according to differing interest day types, each type having an interest rate associated therewith.

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- 15. (Previously Presented) A system comprising:
  - a memory including computer-executable instructions;
- a processor coupled to the memory to execute the instructions, the instructions when executed implementing a process for managing intra-day interest calculation for a bank account, the instructions comprising:
- (a) in response to fluctuations in an account balance of the bank account, setting, by an intra-day interest account management system, balance determination times for the account, the balance determination times corresponding to a plurality of points in time within the span of a single day at which respective net account balances are to be used in an interest calculation for the account;
  - (b) determining the balances for the account for the balance determination times;
- (c) determining applicable conditions for the interest calculation, the conditions relating to an interest rate to be applied based on at least two of a time of day, a calendar day, a variable reference interest rate, option expiration day, public holiday in a particular country, a determination whether the net account balance of the bank account is a credit balance, a determination whether the net account balance of the bank account is a debit balance, and a determination whether the bank account has been overdrafted;
- (d) providing the account balances and applicable conditions to interest calculation logic; and
  - (e) recording a result of operations by the interest calculation logic.
- 16. (Original) The system of claim 15, wherein the balance determination times wherein the balance determination times define intervals of arbitrary length.
- 17. (Original) The system of claim 15, the process further comprising assigning a value time to a transaction to the account, the value time corresponding to a time when the transaction is included in a balance determination, wherein the value time is specified with an accuracy to the second.
- 18. (Previously Presented) A machine-readable medium storing computer-executable instructions for performing a method for managing intra-day interest calculation for a bank account, the method comprising:
- (a) in response to fluctuations in an account balance of the bank account, setting, by an intra-day interest account management system, setting balance determination times for the

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account, the balance determination times corresponding to a plurality of points in time within the span of a single day at which respective net account balances are to be used in an interest calculation for the account;

- (b) determining the balances for the account for the balance determination times;
- (c) determining applicable conditions for the interest calculation, the conditions relating to an interest rate to be applied based on at least two of a time of day, a calendar day, a variable reference interest rate, option expiration day, public holiday in a particular country, a determination whether the net account balance of the bank account is a credit balance, a determination whether the net account balance of the bank account is a debit balance, and a determination whether the bank account has been overdrafted;
- (d) providing the account balances and applicable conditions to interest calculation logic; and
  - (e) recording a result of operations by the interest calculation logic.
- 19. (Original) The machine-readable medium of claim 18, wherein the balance determination times wherein the balance determination times define intervals of arbitrary length.
- 20. (Previously Presented) A machine-readable medium storing computer-executable instructions for performing a method for managing intra-day interest calculation for a bank account, the method comprising:
  - (a) receiving a designation of a bank account to receive intra-day interest calculation;
- (b) receiving transaction information for the account, the transaction information including a value time specifying when a transaction is to be taken into account for interest calculation;
- (c) receiving a specification of a plurality of points in time for determining corresponding account balances for use in calculating an interest on the bank account, wherein the points of time correspond to a plurality of times within a single day and are determined by an intra-day interest account management system in response to fluctuations in an account balance of the bank account;
- (d) for each of the points in time, determining a corresponding account balance, the account balance at a given point in time at least partly depending on the value time;
- (e) for each of the points in time, determining an applicable interest rate based on an assigned condition, wherein the assigned condition includes at least two of a time of day, a

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calendar day, a variable reference interest rate, option expiration day, public holiday in a particular country, a determination whether the net account balance of the bank account is a credit balance, a determination whether the net account balance of the bank account is a debit balance, and a determination whether the bank account has been overdrafted;

- (f) providing the account balances and the applicable interest rates to interest calculation logic; and
  - (g) generating a record of interest amounts calculated by the interest calculation logic.
- 21. (Previously Presented) The method of claim 1, wherein the plurality of points in time are defined as a plurality of intervals of arbitrary length to time within a single day.
- 22. (Previously Presented) The method of claim 9, wherein the plurality of points in time are defined as a plurality of intervals of arbitrary length of time within a single day.
- 23. (Previously Presented) The system of claim 12, wherein the plurality of points in time are defined as a plurality of intervals of arbitrary length of time within a single day.
- 24. (Previously Presented) The system of claim 15, wherein the plurality of points in time are defined as a plurality of intervals of arbitrary length of time within a single day.
- 25. (Previously Presented) The machine readable medium of claim 18, wherein the plurality of points in time are defined as a plurality of intervals of arbitrary length to time within a single day.
- 26. (Previously Presented) The machine readable medium of claim 20, wherein the plurality of points in time are defined as a plurality of intervals of arbitrary length to time within a single day.
- 27. (New) A method for managing intra-day interest calculations for a bank account, comprising:
- (a) in response to fluctuations in an account balance of the bank account, setting, by an intra-day interest account management system, a plurality of balance determination times for the account, each balance determination time corresponding to a point in time within a common calendar day at which respective net account balances are to be used in an intra-day interest calculation for the account;

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- (b) determining the balances for the account for the balance determination times;
- (c) determining applicable conditions for the interest calculation, the conditions relating to an interest rate to be applied based on at least two of a time of day, a calendar day, a variable reference interest rate, an option expiration day, a public holiday in a particular country, a determination whether the net account balance of the bank account is a credit balance, a determination whether the net account balance of the bank account is a debit balance, and a determination whether the bank account has been overdrafted;
- (d) providing the account balances and applicable conditions to interest calculation logic; and
  - (e) recording a result of operations by the interest calculation logic.

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